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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.		
10/735,631	12/16/2003	Sang-hyub Lee	1793.1067	2658	
21171 STAAS & HA)	7590 04/05/2007	EXAMINER			
SUITE 700		BLOUIN, MARK S			
1201 NEW YC WASHINGTO	ORK AVENUE, N.W. ON. DC 20005	ART UNIT	PAPER NUMBER		
	,	•	2627		
					
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MO	3 MONTHS 04/05/2007 PAPER			ER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Applicat	on No.	Applicant(s)			
Office Action Summary		10/735,6	31	LEE, SANG-HYU	LEE, SANG-HYUB		
		Examine	r	Art Unit			
		Mark Blo		2627			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status			•				
1)	Responsive to communication(s) filed	on .					
)⊠ This action is	non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
·	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)🖂	Claim(s) 1-22 is/are pending in the app	plication.					
	4a) Of the above claim(s) is/are withdrawn from consideration.						
	Claim(s) is/are allowed.						
6)⊠	6)⊠ Claim(s) <u>1,2,7,8,13 and 20</u> is/are rejected.						
7)🖂	Claim(s) 3-6,9-12,14-19,21 and 22 is/a	are objected to.					
8)□	Claim(s) are subject to restriction	on and/or election	equirement.				
Applicati	on Papers						
9)□	The specification is objected to by the I	Examiner.					
·	The drawing(s) filed on is/are: a		objected to by	the Examiner.			
,	Applicant may not request that any objection	•	•				
	Replacement drawing sheet(s) including the	ne correction is requi	red if the drawing(s)	is objected to. See 37 Cl	FR 1.121(d).		
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:							
	1. Certified copies of the priority do						
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date 5) Notice of Informal Patent Application							
Paper No(s)/Mail Date 12/16/03 and 4/4/05. 6) Other:							

Application/Control Number: 10/735,631 Page 2

Art Unit: 2627

Detailed Action

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1,2,7,8,13, and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Sugimoto et al (USPN 5,824,920).
- 3. Regarding Claims 1,7,13, and 20, Sugimoto et al shows (Figs. 1-9) a head flying height measurement apparatus comprising: a disk (2) having a plurality of protrusions (Fig. 4 P) with a height greater than an estimated flying height (f2) of a slider formed on a surface of the disk; a head assembly (Fig. 1; Col 4, lines 3-14) of a disk drive having a magnetic head and a slider (22) disposed at an end of the head assembly, wherein the slider floats above the disk when the disk is rotated and cuts the protrusions to leave a portion of each protrusion below a bottom edge of the slider on the surface of the disk (Figs. 4 and 5 head vanish where protrusions are cut); and a measurement device (Fig. 6; Col 6, lines 11-34), wherein the measurement device measures a height (f1-f5) of the portion of the protrusions remaining on the surface of the disk that corresponds to a flying height of the slider (See graphs in Figures 5A and 5B).
- 4. Regarding Claims 2 and 8, Sugimoto et al shows (Figs. 1-9) the head assembly is a magnetic head assembly and the disk is a magnetic recording disk (Fig. 1; Col 4, lines 3-14).

Application/Control Number: 10/735,631

Art Unit: 2627

Allowable Subject Matter

5. Claims 3-6,9-12,14-19,21, and 22 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Blouin whose telephone number is 571-272-7583. The examiner can normally be reached on M-F from 6:00 to 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ms. Hoa Nguyen, can be reached on 571-272-7579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mark Blouin Patent Examiner Art Unit 2627 March 29, 2007

HOA T. NGUYEN

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Page 3

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